

ABSTRACT OF THE DISCLOSURE

5 Metallic/composite articles and methods for making such articles as well as thermoplastic/fiber material composites are provided herein. Composites include a woven fiber material such as carbon fiber material and a thermoplastic selected from a group consisting of polyarylene ether ketone, polyarylene ether ketone ketone, polyarylene ether ether ketone, and derivatives thereof. Articles include such composites and a base metal, wherein the composite is directly adhered to a first surface of the base metal. Articles may be made by contacting a thermoplastic/fiber material composite with a first surface of a base metal; contacting a release sheet with a top of the thermoplastic/fiber material composite; contacting a first surface of a mold with the release sheet and applying heat and pressure to the thermoplastic/fiber material composite sufficient to directly adhere the thermoplastic/fiber material composite to the first surface of the base metal to form an article; and removing the release sheet from the article.

10